

***AMG-18***  
***HLA and External Standards***

**9 April 1997**

# Overview

- **HLA has been established as the technical architecture for DoD simulations**
- **Several opportunities to work with larger standards activities**
  - **DoD: Joint Technical Architecture (JTA)**
  - **IEEE: Simulation Interoperability Standards Organization (SISO) industry standards**

# JTA: Background

- **JTA development status**
  - Version 1.0 adopted in October 1996
  - Applies to C4I systems
  - Essentially a standards profile
- **M&S annex was drafted and coordinated in conjunction with JTA 1.0 development**
  - Withdrawn when it was determined to be out of scope
- **Architecture Coordination Council (ACC) formed in January 1997**
  - Objective is to coordinate among DoD architectures
  - Approach is to use JTA as starting point
  - Add to JTA, architectures and standards for other domains
    - M&S has been identified as a pathfinder effort

# Approach to M&S Annex Preparation

- **Draft annex has been updated to reflect changes since last summer**
- **Distributed last week to AMG for review**
- **POCs and comments requested by 16 April**
  - **Rosemary Hsu (rhsu@dmso.mil) will be focal point for collecting input**
- **Annex will be revised and made available for a second round review**
- **Target is final draft complete by 1 June**
- **Annex will be handled through JTA development process**
  - **DMSO will participate; other participants are welcome; contact DMSO with specifics**

# Reviews of the M&S Annex

- **Content of annex**
  - This is essentially a compendium of M&S specific architecture and data standards
- **Body of the JTA (including appendices)**
  - Annex should identify any exceptions for M&S to standards cited in the body of the JTA
  - Particularly important to system developers

# IEEE SISO Standards

- **IEEE Simulation Interoperability Standards Organization (SISO) has established a process for standards development**
- **Process has been documented in the draft SISO Policy and Procedures (P&P) which is out for comment**
- **Process is sufficiently mature to begin to accept standards nominations**
- **Propose to nominate HLA for standardization**
  - **Draft standards nomination was distributed to AMG for comment last week**

# **DoD AMG and SISO Standards Process**

- **AMG is a DoD organization responsible for M&S architecture definition and evolution for the DoD**
  - Review technical progress in implementation of HLA across the DoD
  - Identify technical tools and support needed in this implementation process
  - Evolve the architecture as experience indicates new/enhanced capabilities are required
- **IEEE SISO is an industry organization to develop general use standards to support simulation interoperability**
- **DoD participates in IEEE standards development in same way as other organizations**
  - DoD M&S standards are developed on a corporate basis
  - Use of industry standards across DoD and industry is very desirable
  - DoD -- via the AMG/DMSO --should be an active participant in the IEEE standards process

# **DoD AMG and SISO Standards Process**

- **AMG activities will continue in parallel with IEEE standards development**
  - **For standards nominations in progress, new requirements or changes in specifications would be provided to IEEE standards process along with supporting technical material**
  - **Once a version of an IEEE standard is established, it will be reviewed to determine acceptability to DoD**
    - **Recommendations will be made and actions taken to establish these as standards for the DoD**
- **Continued AMG activities will review technical progress in implementation of these standards**
  - **Ongoing assessment of any changes needed to those standards**
  - **Again, providing results to IEEE standards process**

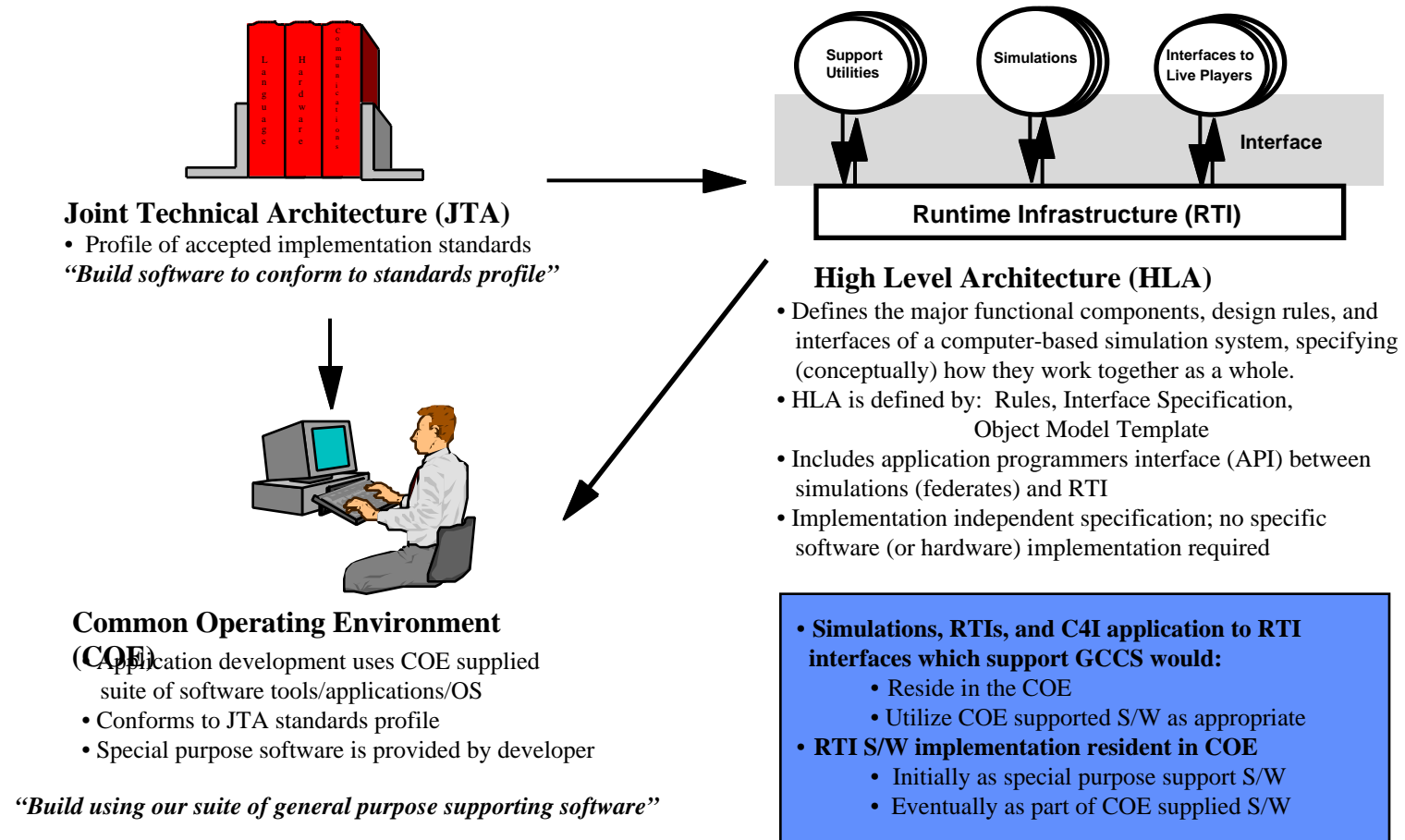


## **Recommendation -- IEEE Standards**

- **Submit standards nomination to IEEE SISO**
  - **Start the standards development process**
- **Provide ongoing support to the IEEE SISO standards development process via AMG/TST; report on progress at AMG meetings**
- **Solicit inputs from AMG for participants in standards development process (Standards Activity Committee, Standards Development Group members, drafting group support, reviewers, etc.)**

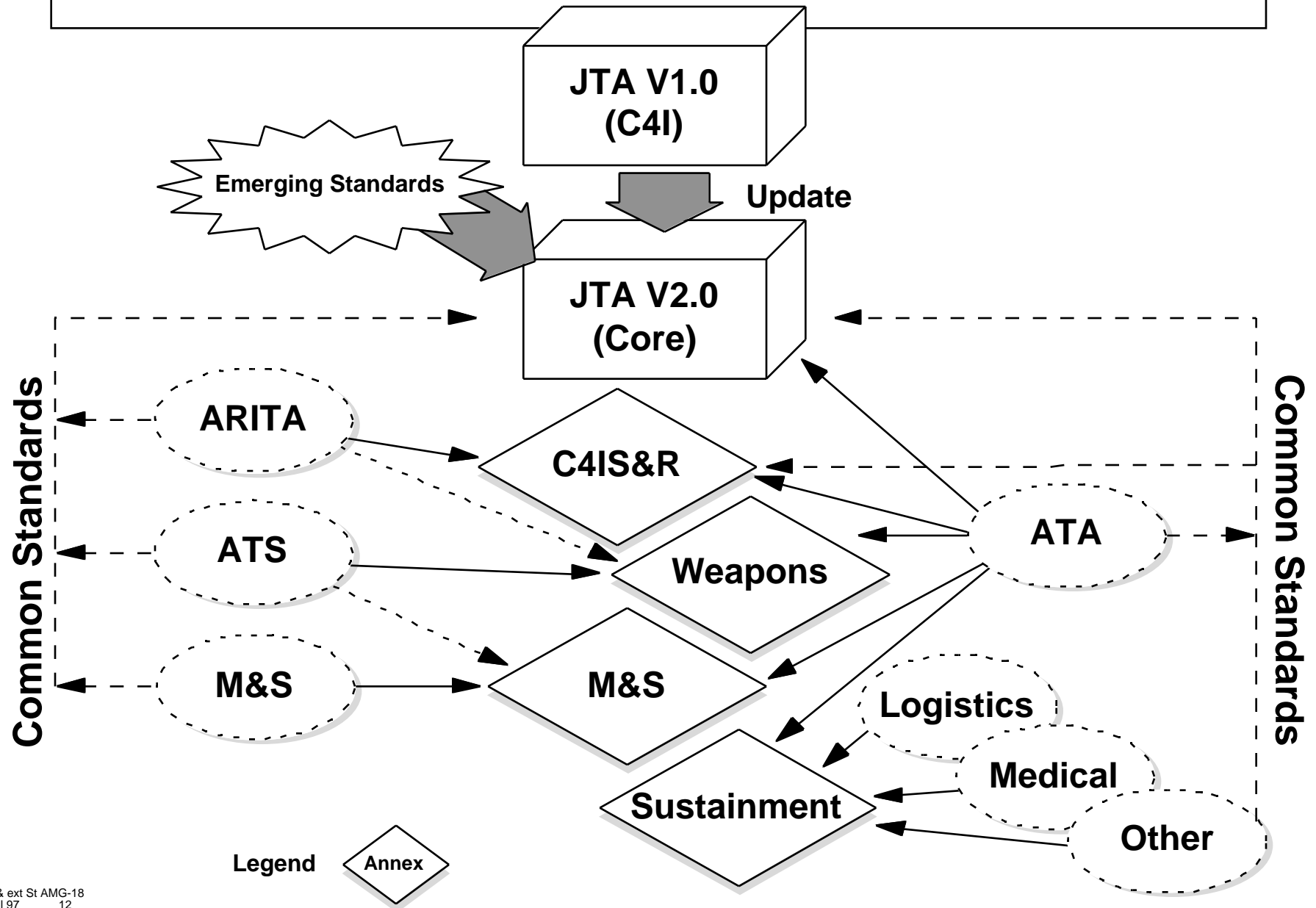
# Backups

# JTA, COE and HLA Relationship

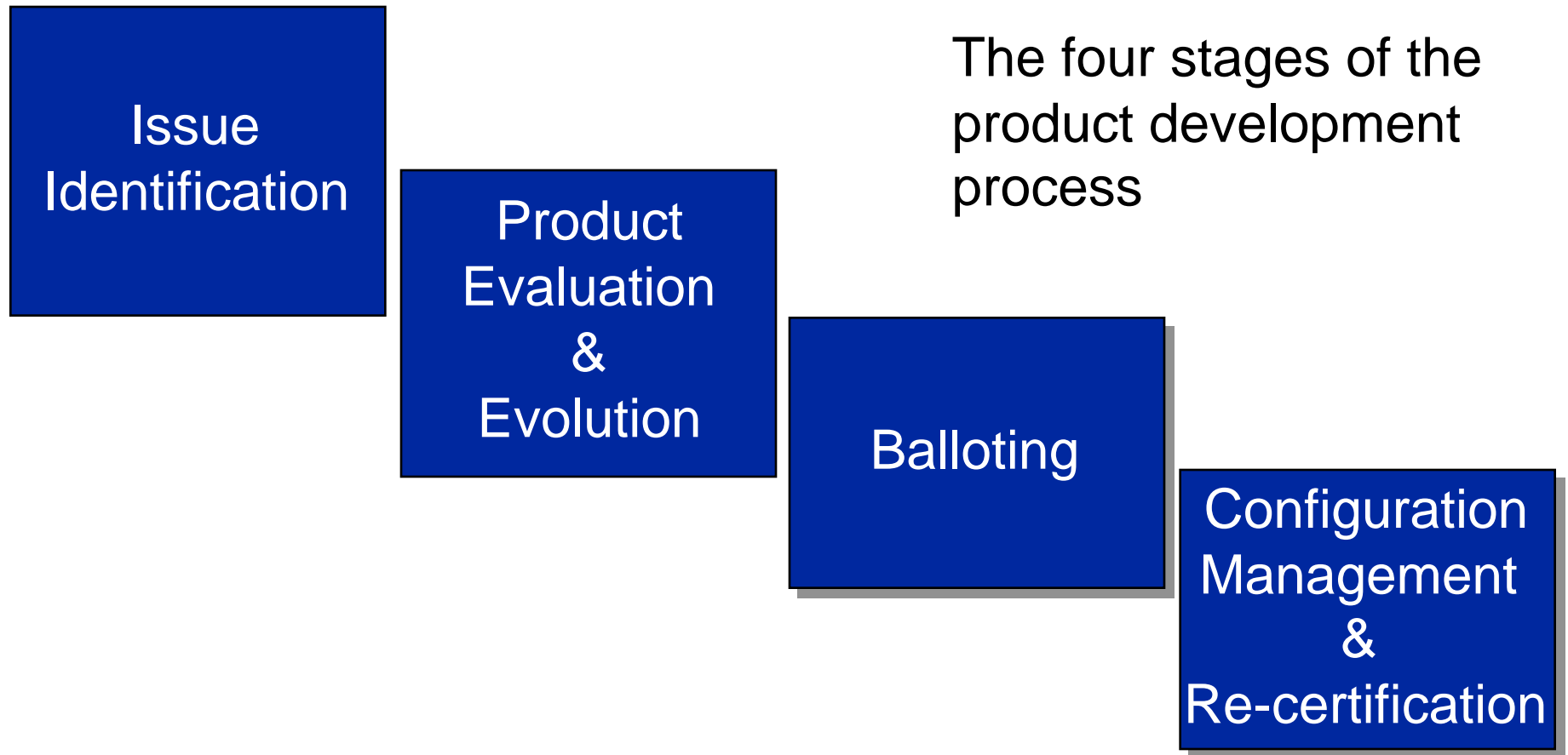


*The JTA is being extended to cover M&S, with the HLA included as a standard for the M&S domain (in an M&S Annex to the JTA)*

# JTA Version 2.0



# SISO Standards Activity Product Development



# **SISO Standards Activity Product Development**

## **Product evaluation criteria**

- **determine entry and exit to the stages and sub-stages of the product development process**
- **established by the SAC**
- **ensure fair and consistent evaluation, based on SISO guiding principles**
- **increase in rigor across the stages of the process**

# **SISO Standards Activity Product Development**

## **Stage 1 : Issue Identification**

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**Issue statements are developed by the proponent and are the basis for evaluation**

- **Problem or issue**
- **Proposed approach**
- **Results of evaluation of alternative approaches**
- **Prototype(s) identification**
- **Impact on simulation domains**
- **Impact on other existing SISO products**
- **Community discussion history**
- **Candidate SDG members**
- **Identification of mechanism for community input**

# SISO Standards Activity Product Development

## Stage 1 : Issue Identification

Sub-stage	SISO Community	SAC	EXCOM
Raise Issue	1		
Draft Issue Statement (IS)	2		
Submit IS	3		
Evaluate (Accept or Reject) IS		4	
Post Accepted IS		5	
Respond to IS	6		
Evaluate (Accept or Reject) IS		7	
Prioritize Accepted IS		8	
Approve IS			9



# SISO Standards Activity Product Development

## Stage 2 : Product Evaluation and Evolution

